



PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	10/657,533
Filing Date	September 8, 2003
First Named Inventor	Hector F. DeLuca
Art Unit	
Examiner Name	
Attorney Docket Number	1256-00921

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS			
		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BB		US- 5,945,410	08/31/1999	DeLuca et al	
		US- 5,936,133	08/10/1999	DeLuca et al	
		US- 5,877,168	03/02/1999	Miyamoto et al	
		US- 5,849,726	12/15/1988	Brenner	
		US- 5,846,960	12/08/1998	Labrie	
		US- 5,843,928	12/01/1998	DeLuca et al	
		US- 5,843,927	12/01/1998	DeLuca	
		US- 5,817,648	10/06/1998	Kutner et al	
		US- 5,587,497	12/24/1996	DeLuca et al	
		US- 5,578,587	11/26/1996	DeLuca et al	
		US- 5,536,713	07/16/1996	DeLuca et al	
		US- 5,246,925	09/21/1993	DeLuca et al	
		US- 5,237,110	08/17/1993	DeLuca et al	
		US- 5,089,641	02/18/1992	DeLuca et al	
		US- 5,086,191	02/04/1992	DeLuca et al	
		US- 4,666,634	05/19/1987	Miyamoto et al	
		US- 4,800,198	01/24/1989	DeLuca et al	
		US-			
		US-			

Examiner Initials*	Cite No. ¹	FOREIGN PATENT DOCUMENTS			
		Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
BB		Country Code ² Number ³ Kind Code ⁴ (if known)			
		0184206	12/1985	Europe	
		0078704	04/1987	Europe	
		0387077	09/1990	Europe	
		0474517	11/1992	Europe	
		0480572	04/1992	Europe	
BB		0516410	12/1992	Europe	

Examiner Signature	<i>Padio</i>	Date Considered	6/18/04
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(Use as many sheets as necessary)

Sheet	2	of	4
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Complete if Known

Application Number	10/657,533
Filing Date	September 8, 2003
First Named Inventor	Hector F. DeLuca
Art Unit	
Examiner Name	
Attorney Docket Number	1256-00921

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
B3		WO90/09991 /	09/1990	PCT		
B3		WO96/01811	01/1996	PCT		

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/657,533
		Filing Date	September 8, 2003
		First Named Inventor	Hector F. DeLuca
		Art Unit	
		Examiner Name	
Sheet 3	of 4	Attorney Docket Number	1256-00921

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BB		Chemical Abstracts, XP-002066055, Vol. 121, No. 21, November 21, 1994.	
		Posner et al, "2-Fluoroalkyl A-Ring Analogs of 1,25-Dihydroxyvitamin D3-Stereocontrolled Total Synthesis via Intramolecular and Intermolecular Diels-Alder Cycloadditions. Preliminary Biological Testing", Journal of Organic Chemistry, 60, pp. 4617-4628, 1995.	
		Slatopolsky et al, "A New Analog of Calcitriol, 19-Nor-1,25-(OH) ₂ D ₂ Suppresses Parathyroid Hormone Secretion in Uremic Rats in the Absence of Hypercalcemia", American Journal of Kidney Disorders, 26(5), 832-60, 1995.	
		Posner et al, "Stereocontrolled Synthesis of a Trihydroxylated A Ring as an Immediate Precursor to 1Alpha,25-Dihydroxyvitamin D ₃ ", Journal of Organic Chemistry, 56, pp. 4339-4341, April 15, 1995.	
		Chemical Abstracts, "Chemistry of Synthetic High Polymers", Vol. 110, No. 10, Abstract 110: 82505v, March 6, 1989.	
		Okano et al, "Regulatory Activities of 2Beta-(3-Hydroxypropoxy)-1Alpha,25-Dihydroxyvitamin D ₃ . A Novel Synthetic Vitamin D ₃ Derivative on Calcium Metabolism", Biochemical and Biophysical Research Communications, Vol. 163, No. 3, pp. 1444-1449, September 29, 1989.	
		Bouillon et al, "Biological Activity of Dihydroxylated 19-Nor-(Pre)Vitamin D ₃ ", Bioactivity of 19-Nor-Pre D, Vol. 8, No. 8, pp. 1009-1015, 1993.	
		Sarandeses et al, "Synthesis of 1Alpha,25-Dihydroxy-19-Norprevitamin D ₃ ", tetrahedron Letters, pp. 5445-5448, April 1992.	
		Periman et al, "1Alpha,25-Dihydroxy-19-Nor-Vitamin D ₃ . A Novel Vitamin D-Related Compound with Potential Therapeutic Activity", Tetrahedron Letters, Vol. 31, No. 13, pp. 1823-1824, February 1990.	
BB		Baggiolini et al, "Stereochemical Total Synthesis of 1Alpha,25-Dihydroxycholecalciferol and 1Beta,25-Dihydroxyrocalciferol", Journal of Organic Chemistry, 51, pp. 3098-3108, 1986.	

Examiner Signature	<i>Padro</i>	Date Considered	6/18/04
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		Applicant Number	10/657,533
		Filing Date	September 8, 2003
		First Named Inventor	Hector F. DeLuca
		Art Unit	
Examiner Name			
Sheet 4	of 4	Attorney Docket Number	1256-00921

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BB		Kiegler et al, "Chemical Conversion of Vitamin D3 to its 1,25-Dihydroxy Metabolite", Tetrahedron Letters, Vol. 31, No. 43, pp. 6057-60660, 1991.	
		Sicinski et al, "New 1Alpha,25-lhydroxy-19-Norvitamin D3 Compounds of High Biological Activity: Synthesis and Biological Evaluation of 2-Hydroxymethyl, 2-Methyl, and 2-Methylene Analogues", Journal of Medical Chemistry, 41, pp. 4662-4674, 1998.	
		Brown et al, "New Active Analogues of Vitamin D with Low Calcemic Activity", Kidney International, Vol. 38, Suppl. 29, 1990, pp. S-22-S-27	
BB		Hareau et al, "Asymmetric Synthesis of 1Alpha,25-Dihydroxyvitamin D3 A-Ring Precursor Starting with 5-Tert-Butyldimethylsiloxy-2-Cyclohexenone", Tetrahedron Letters, 41, 2000, pp. 2385-2388	

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